

# State Route 28 Transportation Concept Report



Caltrans
District 3

May 1997



### STATE ROUTE 28 SEGMENT FACT SHEET

#### SEGMENT: PLA 1 PKm Ahead: 0.137 PKm Back: 12 349 JCT, RT, 89/TAHOE CITY TO GRANITE ROAD Ahead PM: 0.085 Back PM: 7.700 Distance: Kliometers 12,253 Miles 7 615 Transportation Concept State Route 26 Present Route Concept Improvements Facility Minor safety and operational improvements to reduce accidents and Concept provide the highest levels of service on the existing facility. **Ultimate** Encourage greater public transit use. Facility 2 lane conventional 12.4/7.7 Support local plans for Transportation Levels of Service Present System Management (TSM) strategies LOS such as shuttle services and transit 20-Year LOS incentives. F No Build 20-Year Concept Dollar Point F LOS (Improved): Classification and System Designations Local/Regional LOS Standards Functional Classification: Minor Arterial CMP LOS Standard System Designation Placer County Transportation 8.8/8.8 − Segment: 1 YES Freeway NO NHS Planning Agency Expressway NO IRRS D YES Scenio Tahoe City to Granite Ad. Gen Plan Standard North Lake Tahoe Genera No Nat'i Truck YES Plan, 1996 State Route 89

Description - Rationale - General Comments

The first segment of State Route 28 is a two-lane conventional highway from State Route 89 at Tahoe City to Granite Road. State Route 28 is largely urbanized and supports a variety of uses. These uses include services, tourist commercial, residential (both year-round and seasonal occupancy) and marine facilities oriented to Lake Tahoe.

Currently operating at a LOS F during peak periods, this segment carries 16,400 AADT. By 2016, AADT is expected to increase to 23,300 with extended periods of LOS F.

Pedestrian facilities are few and of varying quality. On-street parking often encroaches on the walkways adjacent to the businesses along this route forcing pedestrians to walk on the roadway.

PROJECT PROGRAMMING

'NO PROJECTS NOTED IN PROGRAMMING DOCUMENTS

#### LOCAL PLANNING JURISDICTIONS

RTPA/

CMA

Tahoe Regional Planning Agency (TRPA) Jim Baetge, Executive Director

P.O. Box 1038 - 308 Dorla Ct. #103 Zephyr Cove, NV 89448 (702) 588-4547 Placer County Transportation Planning

Agency

853 Lincoln Way, Suite 109 Auburn, CA 95603

Alr Quality Placer Co. APCD District APCO, Richard Johnson

Dewitt Center, 11464 B Ave., Auburn, CA 95603 (916) 889-7130

#### Air Quality

The following information is a brief overview only. For specific environmental information, contact the Caltrans District 3 Environmental Offices.

Air Basin: Lake Tahoe, Mountain Cos, & Sac Valley

Air Quality Non-Attainment Designations:

CO ATTAINMENT OZONE NON-ATTAINMENT for TRPA STANDARDS AND

TRPA STANDARDS AND ATTAINMENT FOR STATE

PM 10 ATTAINMENT (NON-ATTAINMENT FOR CALIF. 24 HR, STANDARD)

#### Land Use

Segment 1 land use designation is primarily tourist, recreational and commercial.

Most of the land use along this segment offers a wide variety of recreational activities in all seasons - skiing, boating, swimming, golfing, horseback riding, biking, fishing, and sight-seeing. A number of ski areas exist throughout the Lake Tahoe Basin and these sometime operate at capacity during peak periods. Summertime use of facilities in the Tahoe City area include boat launching and marina facility, and river rafting operations, including a designated use-only parking lot.

In 1990, the population of the Tahoe City area was 1,634 persons and the population of Dollar Point was 1,449. According to the Tahoe Regional Planning Agency (TRPA), population forecasts for the Tahoe Region indicate an increase of 27.7 percent in residential population between the 1987 base year and the 2007 forecast year.

The employment along this segment of the route is seasonally influenced. During the winter the major employers are the major ski resorts and in the hotels, motels, vacation properties, and restaurants that support the resorts. In the summer months, employment shifts to those businesses that support tourism, such as restaurants, bars, motels, and small speciality shops. Employment can also be found in the construction activity. TRPA forecasts a 14.5 percent in regional employment between the 1987 base year and the 2007 forecast for this area.

The Tahoe City community had 1,860 housing units in 1990. Vacant or seasonal units comprised 1,168 (63%). Average household size was 2.4.

# Modal Options

#### Public Transit

Tahoe Area Regional Transit (TART) system operates bus lines daily from Tahoe City to Incline. Hours of operation: 6:30 AM to 6:30 PM (every hour on the half hour).

Lake Lapper

The Lake Lapper operates 2 buses year round. Hours of operation:

6:00 AM to 5:00 PM (Monday-Thursday, Sunday) and from 6:00 AM to 10:30 PM (Friday/Saturday).

<u>Other</u>

The ski resorts offer shuttle service during the ski season with transfers at TART stops. The Tahoe Queen Ferry shuttles passengers between the South Shore and

Tahoe City area bus lines. Ski shuttles carry approx. 343,000 passengers each year.

North Lake Tahoe Redevelopment Plan - Final Environmental Impact Report, May 1996

North Tahoe Community Plan, April 1996

TRPA's Regional Transportation Plan- Air Quality Plan -Lake Tahoe Region (reaffirmed December 1994)

Tahoe City Community Plan, Feb. 1994

1997 Regional Transportation Plan - Air Quality - Draft

Planning Documents-Special Studies & Reports
1995 California State Highway Log

1995 Traffic Volumes on California State Highways

## Traffic Analysis and Highway Information

Year	AADT	Daale H	aushi Mahimaa	WO Datie	100	Tanédia Amahasia	Traffic Analysis Comments	
1981	AREI	Peak T	ourly Volumes	Y/C_Ratio	LOS	Italiic Analysis	Comments	
1996	16,400		2,000	0.92	F			
2006	6 19,800		2,420	1.12	F			
2016	23,300		2,840	1.31	F			
% Traffic G	irowth/Yr	<u>2%</u>	Land Use	REC/CO	<u>wsfr</u> p	Peak Period Dir Split	<u>56%</u>	
Terrain	MO	LINTAINOUS	Future 20- Land Use	Year <u>REC/CO</u>	MSFR I	Peak Period Truck %	2%	
Total Accide Statewide A		142%	Fatalities - Acc Rate ve Statewide	3	<u>16%</u> (	Daily Truck %	<b>3%</b>	

#### Available Right of Way Information

Average Median Width: 0.00 Meters Average Shoulder Widths: 1.22 Meters

Average Lane Widths: 3.66 Meters LANES 2

RW Comments General:

There is insufficient data available for detailed right of way needs at this time.

# STATE ROUTE 28 SEGMENT FACT SHEET

#### SEGMENT: PLA 2 PKm Ahead: 12.389 PKm Back: 16.412 GRANITE ROAD TO COON STREET Ahead PM: 7.700 Back PM: 10.200 Distance: Kilometers 4.023 Miles 2.500 Transportation Concept Present 4 lane conventional Route Concept Improvements Facility Minor safety and operational improvements to reduce accidents and State Boute 26 Concept 4 fane conventional provide the highest levels of service on Facility the existing facility. Ultimate Encourage greater public transit use. Facility 4 lane conventional Support local plans for Transportation Levels of Service System Management (TSM) strategies State Route 28 LOS such as shuttle services and transit 20-Year LOS incentives. C No Suild 20-Year Concept PKm/PM PKm/PM 12.4/7.7 LOS (improved): Classification and System Designations Functional Classification: Minor Arterial Local/Regional LOS Standards CMP LOS Standard System Designation: Placer County Transportation NO STRAHNET Segment: 2 NO NHS Planning Agency Expressway YES Regionally NO IRRS Granite Hoad to Coon Street YES Scenic Gen Plan Standard North Lake Tahoe General NO Nat'l Truck YES Terminal Plan. 1996

Description - Rationale - General Comments

This segment of State Route 28 is a 4.3 kilometers (2.6 miles) four lane conventional highway from Granite Road to Coon Street.

Members of the community requested the Placer County Planning Department to study the possibility of reducing the number of lanes on this segment (Kings Beach) from four to three lanes. This reduction in lanes would provide a continuous left-turn lane in the median. Caltrans conducted a traffic analysis in December 1996. This analysis determined that this proposed reduction in lanes would result in increased delays, longer queues, additional fuel consumption and reduced quality on the State Route 28/267 signalized intersection level of service.

Currently operating at a LOS B during peak periods, this segment carries 18,100 AADT. By 2016, traffic is expected to increase to 24,400 ADDT with LOS C.

PROJECT PROGRAMMING

NO PROJECTS NOTED IN PROGRAMMING DOCUMENTS

#### LOCAL PLANNING JURISDICTIONS

RTPA/

Tahoe Regional Planning Agency (TRPA) Jim Baetge, Executive Director

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#### Air Quality

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Air Quality Non-Attainment Designations:

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ATTAINMENT FOR STATE

ATTAINMENT (NON-ATTAINMENT FOR CALIF. 24 HR. STANDARD)

Land Use

Land use in Segment 2 is predominantly tourist/recreational and commercial. There is a large number of motels, restaurants, and tourist related retail shops. In addition, there is also a wide variety of recreational activities occurring in all seasons, i.e., skiing, boating, swimming, golfing, horseback riding, biking, fishing, and sight-seeing. Tahoe Vista as well as Kings Beach contain recreational facilities such as public beaches, recreation concessions, a marina, and various water sports. Kings Beach has a public golf course.

According to the North Lake Tahoe Community Plan (1996), the population of the Tahoe Vista and Kings Beach communities was 2,796 and 1,144 persons respectively.

The employment along this route is seasonally influenced. During the winter the major employers are the major ski resorts and in the hotels, motels, vacation properties, and restaurants that support the resorts. In the summer months, employment shifts to those businesses that support tourism, such as restaurants, bars, motels, and small speciality shops. Employment can also be found in the construction activity.

The Kings Beach community had 2,155 housing units, of which 1,062 (49%) were considered vacant or seasonal. Average household size was 2.55. Most of the housing is older and in fair condition. Some show signs of deterioration and in need of repair.

#### **Modal Options**

## Public Transit

Tahoe Area Regional Transit (TART) system operates bus lines daily from Tahoe City to Incline. Hours of operation: 6:30 AM to 6:30 PM (every hour on the half hour).

#### Lake Lapper

The Lake Lapper operates 2 buses year round. Hours of operation: 6:00 AM to 5:00 PM (Monday-Thursday, Sunday) and from 6:00 AM to 10:30 PM (Friday/Saturday). Other

The ski resorts offer shuttle service during the ski season with transfers at TART stops. The Tahoe Queen Ferry shuttles passengers between the South Shore and Tahoe City area bus lines. Ski shuttles carry approx. 343,000

passengers each year.

North Lake Tahoe Redevelopment Plan - Final Environmental Impact Report, May 1996

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Planning Documents-Special Studies & Reports 1995 California State Highway Log

1995 Traffic Volumes on California State Highways

#### Traffic Analysis and Highway Information

Year AADI		Peak Hourly Volumes		V/C Ratio		LOS	Traffic Analysis Comments		
1996	•		2,050	050 0.3		В	The program used for this analysis was "Netsim", a network analysis software		
2006			2,410	0.	38	В	sponsored by FHWA. Results of this traffic analysis are solely based on the operational		
2016	24,400		2,800		0.43		characteristics of the arterial(i.e., signaliz intersections, friction caused by pedestrial driveways, driver behavior, etc.)		
% Traffic (	Growth/Yr	<u>2%</u>	Land Use		REC/COM/SFR	Peak	Period Dir Split	<u>52%</u>	
Terrain		LEVEL	Future 20- Land Use	Year	REC/COWSFR	Peak	Period Truck %	2%	
Total Accid Statewide	ent Rate vs Avg.	190%	Fatalities - Acc Rate v Statewide	s .	s <u>73%</u>	Daily	Truck %	<u>3%</u>	

#### Available Right of Way Information

Average Median Width: 0.00 Meters Average Shoulder Widths: 1.22 Meters

Average Lane Widths: 3.66 Meters LANES 4

RW Comments General:

There is insufficient data available for detailed right of way needs at this time.

# STATE ROUTE 28 SEGMENT FACT SHEET

SEGMENT: PLA 3 COON STREET TO CALIF/NEVADA STATE LINE Ahead PM: 10.200 Back PM: 11 028 Distance: Kilometers 1,332 Miles 0.828 Transportation Concept Present 2 lane conventional **Route Concept Improvements** Facility Minor safety and operational State Route 267 improvements to reduce accidents and Concept 2 lane conventional provide the highest levels of service on Facility the existing facility. Ultimate Ķings Beach Engility, 2 lane conventional Encourage greater public transit use. Support local plans for Transportation Levels of Service Present System Management (TSM) strategies LOS . State Boute 28 such as shuttle services and transit 20-Year LOS incentives. F No Build 20-Year Concept F LOS (improved): Classification and System Designations Local/Regional LOS Standards Functional Classification: Minor Arterial CMP LOS Standard System Designation Placer County Transportation NO NHS YES Freeway Planning Agency PKm/PM Expresswa PKm/PM NO IRRS YES Regionally Significant D YES Scenic 17.7/11.0 Gen Plan Standard North Lake Tahoe General NO Nat'l Truck YES Terminal Segment: 3 Coon Street to State Line

Description - Rationale - General Comments

This segment of State Route 28 is a two lane conventional highway from Coon Street to the California/Nevada State Line.

Currently operating at a LOS E during peak periods, this segment carries 23,000 AADT. By 2016, traffic is expected to increase to 27,800 AADT and LOS F.

PROJECT PROGRAMMING

NO PROJECTS NOTED IN PROGRAMMING DOCUMENTS

#### LOCAL PLANNING JURISDICTIONS Air Quality Tahoe Regional Planning Agency (TRPA) Jim Baetge, Executive Director The following information is a brief overview only. For specific environmental P.O. Box 1038 - 308 Dorla Ct. #103 information, contact the Caltrans District 3 Environmental Offices. Zephyr Cove, NV 89448 (702) 588-4547 CMA Placer County Transportation Planning Air Basin: Lake Tahoe, Mountain Cos, & Sac Valley Agency 853 Lincoln Way, Suite 109 Air Quality Non-Attainment Designations: Auburn, CA 95603 CO ATTAINMENT Alr OZONE NON-ATTAINMENT for O ATTAINMENT Placer Co. APCD Quality District TRPA STANDARDS AND (NON-ATTAINMENT FOR APCO, Richard Johnson ATTAINMENT FOR STATE CALIF. 24 HR. STANDARD) Dewitt Center, 11464 B Ave., Auburn,

Land Use

Land use along Segment 3 is designated as commercial/public service. There is a mixed residential area of condominiums and single family residences near the communities of Kings Beach and Brockway. The segment also continues to be tourist related with a wide variety of recreational activities. In addition, land use contains four operating casinos and accessory hotel/motels. This area contains the only hot springs in the basin.

The employment along this route is predominantly hotels, motels, vacations properties and restaurant related. Employment can also be found in the construction activity.

#### **Modal Options**

## Public Transit

Tahoe Area Regional Transit (TART) system operates bus lines daily from Tahoe City to Incline. Hours of operation: 6:30 AM to 6:30 PM (every hour on the half hour).

CA 95603 (916) 889-7130

# Lake Lapper

The Lake Lapper operates 2 buses year round. Hours of operation: 6:00 AM to 5:00 PM (Monday-Thursday, Sunday) and from 6:00 AM to 10:30 PM (Friday/Saturday). Other

The ski resorts offer shuttle service during the ski season with transfers at TART stops. The Tahoe Queen Ferry shuttles passengers between the South Shore and Tahoe City area bus lines. Ski shuttles carry approx. 343,000 passengers each year.

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Planning Documents-Special Studies & Reports 1995 California State Highway Log

1995 Traffic Volumes on California State Highways

# Traffic Analysis and Highway Information

Year	AADT	Peak Hourly Volumes		V/C_Ratio		LOS	Traffic Analysis Comments	
1996	•		2,400			E		
2006			2,650	1.17		F		
2016 27,800		2,900		1.28		F	•	
% Traffic G	rowth/Yr	1%	Land Use	COM	REC/SFR	Peak	Period Dir Split	<u>52%</u>
Terrain	MOUM	TAINOUS	Future 20-Y Land Use	ear <u>COM</u> /	REC/SFR	Peak	Period Truck %	2%
Total Accide Statewide A		97%	Fatalities + Acc Rate vs Statewide A	·	<u>42%</u>	Daily	Truck %	<u>3%</u>
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Average Lane Widths: 3.66 Meters LANES 2

RW Comments General:

There is insufficient data available for detailed right of way needs at this time.